

ABSTRACT OF THE DISCLOSURE

Sub A1 An orthopedic implant with a diffusion-hardened surface on non-load bearing areas of the implant for interaction with non-load bearing surfaces of a polymeric bio-compatible material, such as UHMWPE. The orthopedic implant is a posterior stabilized knee prosthetic and system where a coating of oxidized zirconium is formed on the cam of the femoral prosthetic for interaction with the central post of a polymeric tibial insert. The diffusion-hardened surface of the orthopedic implant provides a strengthened cam and reduction in wear in the central post of the polymeric tibial insert.

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